



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

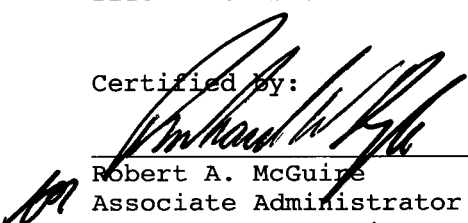
**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0628/S, REVISION 0**

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model Number X.2055.
2. Source Description - Cylindrical double encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 15.9 mm (0.63 in.) in diameter and 23.9 mm (0.94 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Number RBA61598, Rev. A.
3. Radioactive Contents - No more than 111 GBq (3.0 Ci) Cesium-137. The Cesium-137 is in the form of a solid calcium silicate in a glass matrix or a solid sulfate as ion exchange beads.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires June 15, 2008.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated April 11, 2003 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

JUN 18 2003

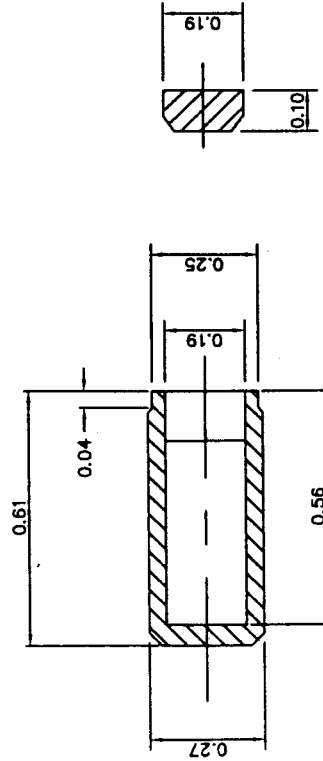
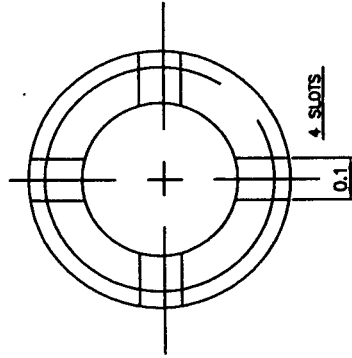
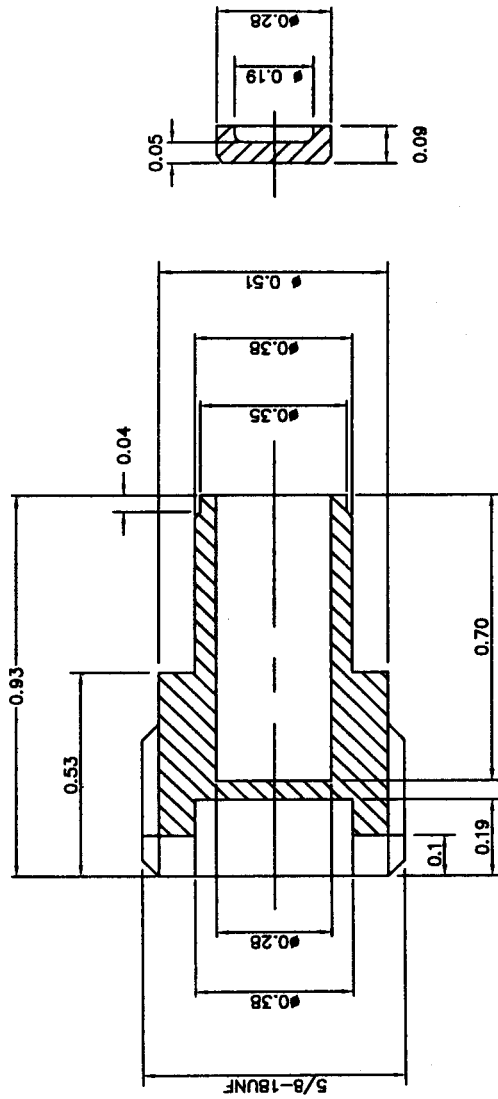
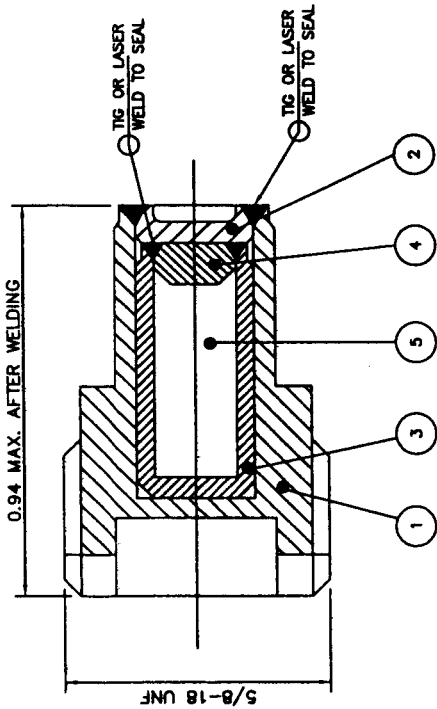
(DATE)

Revision 0 - Original issue.

1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

ITEM No.	DESCRIPTION	QTY.
1	SHEATH BODY STAIN.STL.	1
2	SHEATH LID STAIN.STL.	1
3	CELL BODY STAIN.STL.	1
4	CELL LID STAIN.STL.	1
5	ACTIVE MATERIAL	AR



ITEM 1

ITEM 2

ITEM 3

ITEM 4

APPROVALS

[Signature] 7/11/2003

[Signature] 7/11/2003

AEATECHNOLOGY
QSA
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE
DRAWING

DIMENSIONS IN INCHES
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
X.X ±0.1
X.XX ±0.05
ANGULAR ±5°

INTERNAL $\frac{N}{7}$
EXTERNAL $\frac{N}{8}$

TITLE X2055 CAPSULE ASSEMBLY

SIZE A

DWG. NO. RBA61598

SCALE: NONE

SHEET 1 OF 1

REV A

ERF # 474